

FISHWAY STATUS REPORT

Date: 5/26/2018
 Inspection Period: 5/20/2018 thru 5/26/2018



US Army Corps
 of Engineers
 Portland District

JOHN DAY DAM

JD/WC Project-Fisheries
 P.O. Box 823
 Rufus, Oregon 97050
 Phone: 541-506-7860

All JD Fishways are inspected twice per day during fish passage season, Mar. 1 - Nov. 30.
 Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections:	14	Temperature:	57 F
	Out of Criteria	Limit			Secchi:	3.2 Ft.
NORTH FISHWAY			In service with all 6 AWS pumps total available.			
Exit differential	0	≤ 0.5'				
Exit Control weirs	0	High setting	High setting is normal for JDN			
Count station differential	0	≤ 0.3'				
Weir crest depth (DS gauge)	0	1.0' ± 0.1'				
Entrance differential	0	1.0' - 2.0'	AVG	1.5		
SOUTH FISHWAY	0		In service with two AWS turbines and two FOGs.			
Exit differential	0	≤ 0.5'				
Exit Control weirs	0	Mid setting	Mid setting is normal for JDS			
Count station differential	0	≤ 0.3'				
Weir crest depth (US gauge)	0	1.0' ± 0.1'				
South entrance differential	0	1.0' - 2.0'	AVG	1.3		
Entrance weir SE1	0	depth (≥ 8')	AVG	8.3		
Collection channel velocity	0	1.5 - 4 fps	AVG	2.54		
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.8		
Entrance weir NE1	0	depth (≥ 8')	AVG	11.3		
Entrance weir NE2	0	depth (≥ 8')	AVG	11.3		
JUVENILE PASSAGE	0		In service since 2/28.			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG	4.5		
Submersible traveling screens	0	visual inspect	Monthly STS camera inspection completed 5/14. All STS screens are in good working order.			
Turbine trashrack drawdown	0	<1.5', wkly	Trashrack raking crane failed on 5/22. Maintenance crew hoping to fix by 5/31.			
Vert barrier screen drawdown	0	<1.5', wkly				
Spill volume	0	per FPP	Special operations to lower TDG/ spill started on 5/26 and will continue thru 6/1.			
Spill pattern	0	per FPP	Two TSWs, bays 18 & 19 open since 4/10/18 AM.			
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

SMF in service with every other day sampling increased to every day on 5/26. It will continue thru 6/4 due to special JD operations to lower TDG.

Maintenance:

SMF SCADA update/mods' investigation by JD Electrical/ Portland District Engineers is underway. Awaiting for \$ 170 K UFR to complete in FY18.

Research: None

Birds :

White pelicans continue increasing on the island downstream of BRZ but the BRZ gulls have declined over the past week. See Avian Numbers tab for details.

All 125 avian lines in place without any deficiencies. USDA boat hazing commenced on 4/16 and will continue 7 days a week thru 7/31.

JD BRZ avian/ gull presence has declined from minor to almost non-existent over the past week :)

Operations:

JD South Fishway in service, with two AWS turbines and two FOGs since 2/28/18. Awaiting special funding to overhaul turbines 1 & 2 (\$ 3 million each.)

JD North Ladder in service since 12/21/17. 6 out of 6 AWS pumps available again since 4/18/18.

MU Gatewell Drawdowns: All MUs trashrack differentials are 1.5' or below according to twice a week inspections.

Maintenance:

JD South AWS turbine 1 is OOS, in poor condition and urgently awaiting its overhaul as soon as \$ 3 million becomes available (hopefully in a year or two ?)

JD Structural and Mechanical crew started working on the failed Trashrack crane on 5/22. Hoping to replace broken scoop's cable by 5/31.

Calibration: All gauges/ sensors are within the criteria of 0.3' .

Research:

JDS and JDN Adult PIT systems are in service and detecting PIT tags since 3/1/18.

Coordinating with CRITFC and Tribes for the upcoming adult lamprey collection season starting in late May.

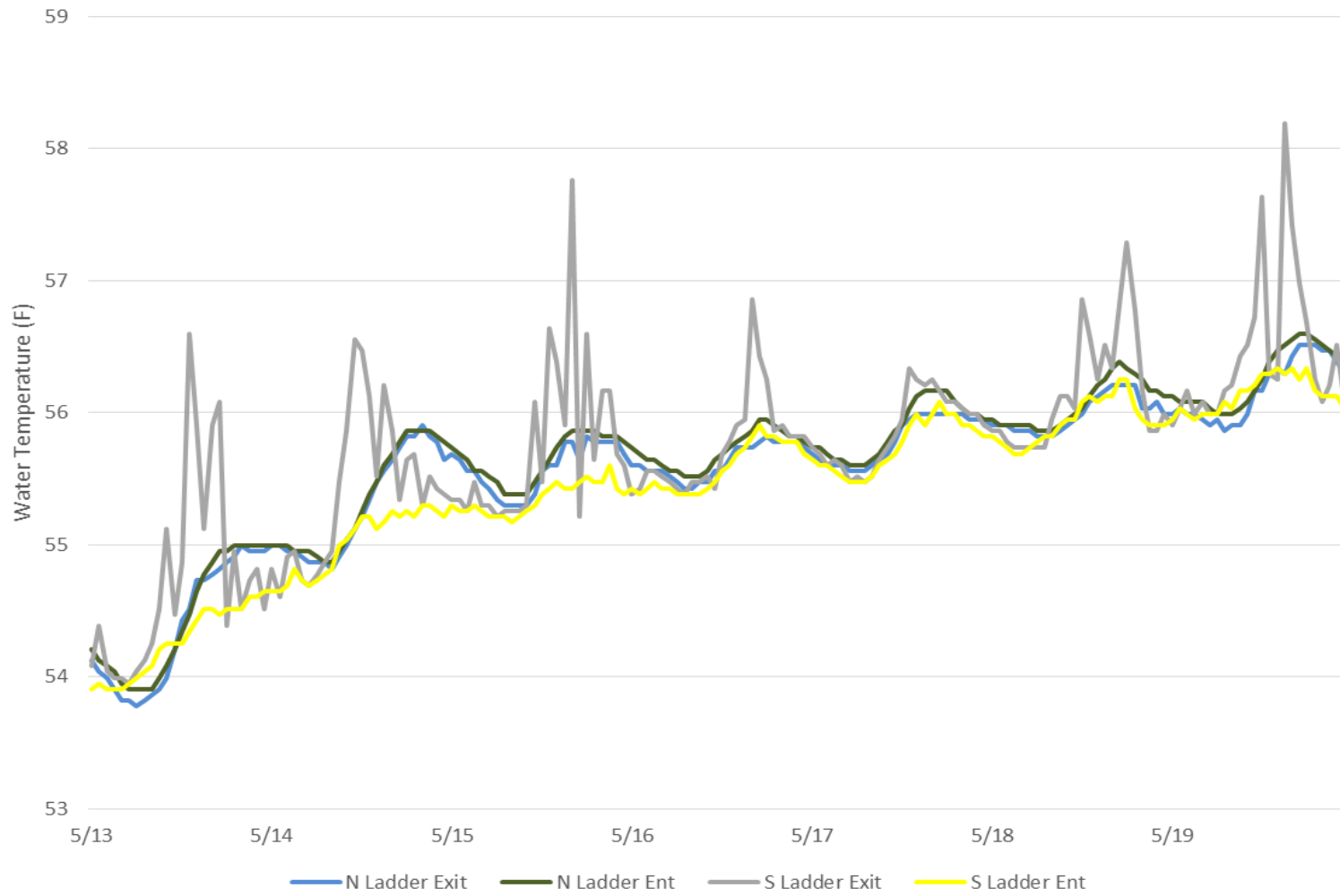
JD Mechanical continues planning for the JD North LPS water supply pumps installation. To be completed by 6/1.

WDFW NPM angling from JD PH Tailrace deck started on 5/1. Catches started increasing the past week with 131 NPM caught thru 5/27.

Coordinating with Uof I crew for their JD Adult Lamprey RT installation/ monitoring at both adult fishways in 2018.

E-Signed by MOYNAHAN,KEVIN.PATRICK,1393959157
VERIFY authenticity with ApproveIt

JDA Fishladder Fishladder Water Temperatures 05/13/18 - 05/19/18



JDA Collection Channel Velocity

Date 19-May-18

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:08	68	2.65
2 - 4	2:07	127	3.05
4 - 6	3:17	197	2.57
6 - 8	4:28	268	2.54
8 - 10	5:31	331	2.86
10 - 12	6:37	397	2.73
12 - 14	7:47	467	2.57
14 - 16	8:55	535	2.65
16 - 18	10:00	600	2.77
			2.71

Bay 19 TW: 167.3
turbine 2-3=68rpm

FPP Criteria 1.5-4.0 feet per second (2 fps optimum)

John Day Dam
Avian Zones



John Day Weekly Averages

	Temp:	Secchi:	Fallbacks	
Sun	56	3.0		
Mon	56	3.0	42	
Tue	56	3.0		
Wed	57	3.5	50	
Thur	58	3.5		
Fri	58	3.5	47	24-hour sample
Sat	58	3.0	80	
AVG:	57	AVG: 3.2	AVG/Sample 55	
			MAX 80	
			MIN 80	

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	11.2	11.2	1.5	8.4	1.4	4.5	1.9
Sun	11.2	11.2	1.5	8.2	1.7	4.6	1.9
Mon	11.4	11.4	1.3	8.5	1.5	4.6	1.8
Mon	11.2	11.2	1.4	8.4	1.4	4.2	1.8
Tues	11.5	11.5	1.4	8.2	1.5	4.6	1.4
Tues	11.1	11.1	1.2	8.1	1.4	4.4	1.9
Wed	11.7	11.7	1.1	8.1	1.4	4.4	2.0
Wed	11.9	11.9	1.2	8.2	1.5	4.5	1.9
Thur	11.9	11.9	1.2	8.2	1.5	4.6	1.8
Thur	11.1	11.1	1.2	8.6	1.5	4.6	1.5
Fri	11.0	11.0	1.2	8.3	1.6	4.6	1.4
Fri	10.6	10.6	1.2	8.3	1.4	4.6	2.0
Sat	11.7	11.7	1.2	8.2	1.4	4.7	1.9
Sat	10.9	10.9	1.2	8.5	1.5	4.6	2.0
AVG:	11.3	11.3	1.3	8.3	1.5	4.5	1.8

JDA Bird Counts: 5/20/18 to 5/26/18

NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Date	Zone	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	
20-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	36	0	0	65 0 0 0 32 0 0 88
20-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-May	PH3	13	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20-May	SW3	50	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Avg/Survey		60		0		0		0		0		0		0		0		33		0		185
21-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	36	0	0	55 0 0 12 40 0 0 101
21-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21-May	PH2	5	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21-May	PH3	19	19	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	
21-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21-May	SW3	64	26	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	
Avg/Survey		70		0		0		0		0		0		1		6		28		0		208
22-May	PHFB	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	18	0	0	0	19 0 0 0 20 0 0 62
22-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22-May	PH3	14	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	
22-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22-May	SW3	54	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	
Avg/Survey		34		0		0		1		0		0		3		4		9		0		101
23-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	6	0	0	13 0 0 8 13 0 2 77
23-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23-May	PH2	7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
23-May	PH3	12	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
23-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23-May	SW2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23-May	SW3	35	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Avg/Survey		49		0		0		0		0		0		1		1		7		0		113

JDA Bird Counts: 5/20/18 to 5/26/18

NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Date	Zone	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	
24-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	
24-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May	PH3	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
24-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May	SW3	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Avg/Survey		25		0		0		0		0		0		0		0		2		0		54
25-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	16	22	49	
25-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	PH3	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3
25-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	SW3	0	30	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Avg/Survey		16		14		0		0		0		0		1		0		6		19		109
26-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	7	32	35	80	
26-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	PH1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
26-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	PH3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
26-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	SW3	20	20	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	42
Avg/Survey		22		0		0		0		0		0		1		0		7		34		126
Totals		Gulls				Cormorant				Caspian tern				White Pelican				Grebe				Total
		F		NF		F		NF		F		NF		F		NF		F		NF		
Weekly Total		552		27		0		1		0		0		12		20		179		105		896
Avg/Survey		39		2		0		0		0		0		1		1		13		8		64